

## 1. Identification of the substance/mixture and of the company/undertaking

### Product identifier

Trade name: Terblend® N Black  
This safety data sheet pertains to the following products:  
Terblend® N NM-12 UV BK38934  
Terblend® N NM-13 BK38737  
Terblend® N NM-13 UV BK38916  
Terblend® N NM-13 UV BK38924  
Terblend® N NM-19 BK17400  
Terblend® N NM-19 BK17430  
Terblend® N NM-19 BK38228  
Terblend® N NM-19 BK38307  
Terblend® N NM-19 BK38732  
Terblend® N NM-19 BK900306  
Terblend® N NM-19XP BK38307  
Terblend® N NM-21EF BK17400  
Terblend® N NM-21EF BK38474

### Relevant identified uses of the substance or mixture and uses advised against

General use: Polymer  
Basic material for chemical industry processing

### Details of the supplier of the safety data sheet

Company name: INEOS Styrolution APAC Pte Ltd.  
Street/POB-No.: 111 Somerset Road  
Postal Code, city: #08-01/02 TripleOne Somerset, SG  
Singapore 238164  
WWW: www.styrolution.com  
E-mail: INSTY.asia@ineos.com  
Telephone: +65 6933 8350  
Telefax: +65 6933 8355  
Department responsible for information:  
Infopoint, Telephone: + 65 (0) 6933 - 8372  
E-mail: INSTY.asia@ineos.com

### Emergency telephone number

Telephone: +86 512 8090 3042 (Country); + 65 3158 1074 (regional)

## 2. Hazards identification

### Classification of the substance or mixture

#### GHS classification

This mixture is classified as not hazardous.

### Label elements

Hazard statements: not applicable

Precautionary statements: not applicable

**Other hazards**

Dust: Can cause skin, eye and respiratory tract irritation.  
In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed..  
The melted product can cause severe burns.  
Swallowing may cause gastrointestinal irritation and pain of guts.

**3. Composition / information on ingredients**

**Mixtures**

Chemical characterisation: Polymer mixture:

CAS No. 25038-54-4: 40 - 60 % Polyamide (PA 6 )  
CAS No. 9003-56-9: 30 - 50 % Styrene-acrylonitrile-butadiene copolymer  
CAS No. 27812-34-6: 0 - 5 % Styrene-acrylonitrile-Maleic anhydride copolymer  
CAS No. 1333-86-4: < 2 % Carbon

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 52829-07-9	Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate	< 1 %	Eye Dam. 1. Aquatic Acute 1. Aquatic Chronic 2.
CAS 25103-58-6	tert.-Dodecylmercaptan	< 0.5 %	Skin Irrit. 2. Eye Irrit. 2A. Skin Sens. 1B. Aquatic Chronic 4.

Additional information: The substances are encapsulated in a polymer and are therefore not bioavailable.

**4. First aid measures**

In case of inhalation: Provide fresh air. Put victim at rest and keep warm. Seek medical attention.  
Following skin contact: The melted product can cause severe burns.  
Do not remove the product from the skin without medical assistance.  
After contact with molten product, cool skin area rapidly with cold water. Consult physician.  
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.  
Consult an eye specialist in the event of irritation.  
After swallowing: Rinse mouth with water. Drink one or two glasses of water. Never give an unconscious person anything through the mouth. Seek medical attention

**Most important symptoms and effects, both acute and delayed**

Dust: Skin irritation, eye irritations and redness

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.  
Decontamination, vital functions

## 5. Firefighting measures

### Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

### Special hazards arising from the substance or mixture

In case of fire may be liberated: Smoke, hydrocarbons, carbon monoxide and carbon dioxide (CO<sub>2</sub>).

In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed..

### Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Wear personal protection equipment. Do not breathe dust.

### Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

### Methods and material for containment and cleaning up

Avoid generation of dust. Remove all sources of ignition.

Take up mechanically. Collect in closed containers for disposal.

Additional information:

Special danger of slipping by leaking/spilling product.

## 7. Handling and storage

### Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe dust.

In the case of the formation of dust: Withdraw by suction.

Molten material: Avoid contact with the substance.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils. Avoid open flames.

In case of dust formation (fine dust): May form explosible dust-air mixture if dispersed..

### Storage

Requirements for storerooms and containers:

Store in a well-ventilated place. Keep container tightly closed.

Protect against heat /sun rays. Protect from moisture.

Further details:

Special danger of slipping by leaking/spilling product.

## 8. Exposure controls/personal protection

### Control parameters

Additional information: The product contains very low levels of residual monomers and process chemicals (styrene, ethylbenzene, acrylonitrile, polyamide and butadiene) that may be evolved during thermal processing, along with possible decomposition products. As the identity and levels of these impurities evolved will depend upon the processing conditions (temperature etc.) it is the responsibility of the user to determine the adequacy of any protection or safety measures.

### Exposure controls

Provide good ventilation in the work area. Additional controls are not normally necessary when handling the polymer.

Thermal extrusion: Provide local exhaust ventilation to ensure that the workplace exposure limit is not exceeded.

Use of respiratory protection may be necessary during maintenance activities.

See also information in chapter 7, section storage.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A-P2 according to EN 14387.

Hand protection: Protective gloves according to EN 374.  
Protective gloves made of fabric or leather.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.  
In case of melting: Impervious heat protective gloves according to EN 407  
Glove material: Leather  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing. Boots or Wear protective shoes.

General protection and hygiene measures:

Molten material: Avoid contact with skin.

Avoid breathing dust and vapours. Keep away from sources of ignition.

Wash hands before breaks and after work.

In case of dust formation: Particular danger of slipping on spilled product on the ground.

### Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: solid  
Form: granulate  
Colour: black

Odour: weak, characteristic

Odour threshold: No data available

pH value: not applicable

## SAFETY DATA SHEET

according to Singapore Standard SS 586 - Part 3 - 2008

Revision date: 25/2/2019

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### Terblend® N Black

Material number TBL102

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Melting point/freezing point:	> 100 °C (DIN EN ISO 306)
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	Not highly flammable.
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C: approx. 1.05 - 1.40 g/cm <sup>3</sup> (DIN 53479)
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	300 °C

### Additional information

Viscosity	-
Explosive properties:	In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed..
Bulk density:	at 20 °C: approx. 650 kg/m <sup>3</sup> (DIN 53466)

## 10. Stability and reactivity

Reactivity:	No hazardous reaction when handled and stored according to provisions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed..
Conditions to avoid:	Keep away from sources of ignition and heat. Avoid dust formation.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	When greatly overheated, material may release hazardous decomposition products: monomers, hydrocarbons, gases/vapours, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide.
Thermal decomposition:	300 °C

## 11. Toxicological information

### Information on toxicological effects

Acute toxicity:	LD50 Rat, oral: > 5000 mg/kg
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Toxicological effects: Acute toxicity (oral): Based on available data, the classification criteria are not met.  
 Acute toxicity (dermal): Lack of data.  
 Acute toxicity (inhalative): Lack of data.  
 Skin corrosion/irritation: Lack of data.  
 Serious eye damage/irritation: Lack of data.  
 Sensitisation to the respiratory tract: Lack of data. Not to be expected  
 Skin sensitisation: Lack of data. Not to be expected  
 Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected  
 Carcinogenicity: Lack of data. Not to be expected  
 Reproductive toxicity: Lack of data. Not to be expected  
 Effects on or via lactation: Lack of data.  
 Specific target organ toxicity (single exposure): Lack of data.  
 Specific target organ toxicity (repeated exposure): Lack of data.  
 Aspiration hazard: Lack of data.

Other information: When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

**Symptoms**

Dust: Can cause skin, eye and respiratory tract irritation.  
 The melted product can cause severe burns.  
 Thermal treatment, Processing: Irritating to eyes, respiratory system and skin.  
 In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

**12. Ecological information**

**Toxicity**

Aquatic toxicity: Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate: Very toxic to aquatic life with long lasting effects.  
 Algae toxicity:  
 EC50 Pseudokirchneriella subcapitata (green algae): 0.705 mg/L/72h (OECD 201)  
 Daphnia toxicity:  
 EC50 Daphnia magna (Big water flea): 8.58 mg/L/48h (OECD 202)  
 NOEC Daphnia magna (Big water flea): 0.23 mg/L/21d (OECD 211)  
 Fish toxicity:  
 LC50 Lepomis macrochirus (bluegill): 4.4 mg/L/96h (OECD 203)  
 Bacterial toxicity:  
 IC50 activated sludge: >100 mg/L/3 h (OECD 209)

Effects in sewage plants: In sewage treatment plants it may be separated mechanically.

**Persistence and degradability**

Further details: Biodegradation: Product is not readily biodegradable.  
 The product is likely to persist in the environment.

**Mobility in soil**

No data available

**Additional ecological information**

General information: Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Waste treatment methods

#### Product

Recommendation: With due observance of the regulations laid down by the local authorities, this must be brought to a suitable incineration plant/waste disposal site.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.

## 14. Transport information

### UN number

ADR/RID, IMDG, IATA-DGR:  
not applicable

### Sea transport (IMDG)

Proper shipping name: Not restricted  
Marine pollutant: no

### Air transport (IATA)

Proper shipping name: Not restricted

### Further information

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### National regulations - Korea

Industrial Safety and Health Act  
not applicable

Chemicals Control Act not applicable

### Further regulations, limitations and legal requirements

No data available

## 16. Other information

Reason of change: Changes in section 3: Composition / information on ingredients

Date of first version: 17/5/2013

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.